

## CHAPTER OVERVIEW

### 9: Chemical Bonds

How do atoms make compounds? Typically they join together in such a way that they lose their identities as elements and adopt a new identity as a compound. These joins are called *chemical bonds*. But how do atoms join together? Ultimately, it all comes down to electrons. Before we discuss how electrons interact, we need to introduce a tool to simply illustrate electrons in an atom.

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[9.2: Lewis Electron Dot Diagrams](#)

[9.3: Electron Transfer - Ionic Bonds](#)

[9.4: Covalent Bonds](#)

[9.5: Other Aspects of Covalent Bonds](#)

[9.6: Violations of the Octet Rule](#)

[9.7: Molecular Shapes](#)

[9.E: Chemical Bonds \(Exercises\)](#)

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